Amendments to the Claims

1. (currently amended) A compound of Formula (I)

or pharmaceutically acceptable salt or solvate thereof

wherein

 A^{1} and A^{2} are each independently C_{1-4} alkylene or a bond;

A³ is a bond, C₁₋₄alkylene or C₁₋₄alkylidene;

 A^4 is C_{1-4} alkylene or a bond and is attached to X, X^1 or X^2 ;

X, X¹, X² and X³ are independently C or CH;

J is C₁₄alkyl;

p is 0 or 1;

 R^1 and R^2 are independently H, $C_{1\text{-}3}$ alkyl, $C_{3\text{-}6}$ cycloalkyl, phenyl, -O-phenyl, -N(H)C(O)O- $C_{1\text{-}4}$ alkyl or $C_{1\text{-}4}$ alkyl-N(H)C(O)O-;

said C₃₋₆cycloalkyl, phenyl or O-phenyl being independently and optionally substituted with C₁₋₄alkyl, C₁₋₃alkoxy, indolyl or halo;

wherein said indolyl is optionally substituted by halo or cyano;

or are independently selected from the group of heterocyclic moieties consisting of thienyl, furanyl, pyrrolyl, pyrrolinyl, pyrrolidinyl, imidazolyl, imidazolinyl, imidazolidinyl, pyrazolyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, pyridyl, pyrimidinyl, piperidinyl, piperazinyl, morpholino, adamantyl, indolyl, isoindolyl, indolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl and tetrahydroisoquinolinyl, wherein said heterocyclic moieties are optionally substituted with halo, C₁. 4alkyl, C₁₋₄alkoxy or cyano;

or wherein -A¹-R¹ and -A²-R² together with the nitrogen to which they are attached form pyrrolyl, pyrrolinyl, pyrrolidinyl, imidazolyl, imidazolidinyl, pyrazolyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, pyridyl, pyrimidinyl, piperidinyl, piperazinyl, morpholino, indolyl, isoindolyl, isoindolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl or tetrahydroisoquinolinyl and are optionally substituted with halo, C_{1.4}alkyl, C_{4.4}alkoxy, cyano or benzyl;

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R^3 is H or C_{1-4}alkyl; 
m is 0 or 1; 
R^4 and R^5 are independently hydrogen, cyano, halo, nitro, C_{1-3}alkyl or C_1. 
3perfluoroalkyl; 
wherein said R^4 or R^5 may be independently attached to G^1, X, X^1, X^2 or X^3; 
n is 0 or 1; 
G is N, O or S; 
G^1 is N, C or CH;
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Y is (D)H wherein D is C; and

Z is (E)H wherein E is C;

provided that

both R^4 and R^5 are not attached to the same of said G^1 , X, X^1 , X^2 or X^3 ; if G is O or S, then m is 0;

if G is N, then m is 1;

- if R₁ is C₃₋₆cycloalkyl, phenyl or O-phenyl being independently and optionally substituted with C₁₋₄alkyl, C₁₋₃alkoxy, indolyl or halo; wherein said indolyl is optionally substituted by halo or cyano, then R₂ is H or C₁₋₃alkyl;
- if R₂ is C₃₋₆cycloalkyl, phenyl or O-phenyl being independently and optionally substituted with C₁₋₄alkyl, C₁₋₃alkoxy, indolyl or halo; wherein said indolyl is optionally substituted by halo or cyano, then R₁ is H or C₁₋₃alkyl;
- if -A¹-R¹ and -A²-R² together with the nitrogen to which they are attached form pyrrolyl, pyrrolinyl, pyrrolidinyl, imidazolyl, imidazolinyl, imidazolidinyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, pyridyl, pyrimidinyl, piperidinyl, piperazinyl, morpholino, indolyl, isoindolyl, indolinyl, isoindolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl or tetrahydroisoquinolinyl and are optionally substituted with halo, C₁₋₄alkyl, C₁₋₄alkoxy, cyano or benzyl, then p is 0;
- if R¹ is -N(H)C(O)OC₁₋₄alkyl, C₁₋₄alkyl-N(H)C(O)O- or said heterocyclic moiety wherein said heterocyclic moiety contains a nitrogen atom and said nitrogen atom is attached to A¹, then A¹ is C₂₋₄alkylene;
- if R² is -N(H)C(O)OC₁₋₄alkyl, C₁₋₄alkyl-N(H)C(O)O- or said heterocyclic moiety wherein said heterocyclic moiety contains a nitrogen atom and said nitrogen atom is attached to A², then A² is C₂₋₄alkylene;
- if R¹ is N(H)C(O)O-C₁₋₄alkyl, C₁₋₄alkyl-N(H)C(O)O- or a heterocyclic moiety selected from the group consisting of thienyl, furanyl, pyrrolyl, pyrrolinyl, pyrrolidinyl, imidazolyl, imidazolyl,

imidazolidinyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, pyridyl, pyrimidinyl, piperidinyl, piperazinyl, morpholino, adamantyl, indolyl, isoindolyl, indolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl and tetrahydroisoquinolinyl, wherein said heterocyclic moieties are optionally substituted with halo, C₁₋₄alkyl, C₁₋₄alkoxy or cyano, then R² is H or C₁₋₃alkyl;

if R² is -N(H)C(O)O-C₁₋₄alkyl, C₁₋₄alkyl-N(H)C(O)O- or a heterocyclic moiety selected from the group consisting of thienyl, furanyl, pyrrolyl, pyrrolinyl, pyrrolidinyl, imidazolyl, imidazolinyl, imidazolidinyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, pyridyl, pyrimidinyl, piperidinyl, piperazinyl, morpholino, adamantyl, indolyl, isoindolyl, indolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl and tetrahydroisoquinolinyl, wherein said heterocyclic moieties are optionally substituted with halo, C₁₋₄alkyl, C₁₋₄alkoxy or cyano, then R¹ is H or C₁₋₃alkyl;

if R⁴ or R⁵ are attached to G¹, then G¹ is C; if A⁴, R⁴ or R⁵ are attached to X, then X is C; if A⁴, R⁴ or R⁵ are attached to X¹, then X¹ is C; if A⁴, R⁴ or R⁵ are attached to X², then X² is C; if R⁴ or R⁵ are attached to X³, then X³ is C.

- 2. (original) A compound according to claim 1 wherein p is 0.
- 3. (original) A compound according to claim 1 wherein G is N and G¹ is CH.
- 4. (original) A compound according to claim 1 wherein G is S and G¹ is CH.
- 5. (original) A compound according to claim 1 wherein G is N and G¹ is N.
- 6. (original) A compound according to claim 1 wherein G is S and G¹ is N.
- 7. (original) A compound according to claim 1 wherein G is O and G¹ is N.

8. (original) A compound according to claim 1 wherein R¹ is methyl and R² is methyl.

- 9. (original) A compound according to claim 1 wherein R^1 is H and R^2 is C_{3-6} cycloalkyl wherein said C_{3-6} cycloalkyl is substituted with indolyl and wherein said indolyl is optionally substituted by halo or cyano.
- 10. (original) A compound according to claim 1 wherein A^1 is a bond, R^1 is methyl, A^2 is a bond and R^2 is methyl.
- 11. (original) A compound according to claim 1 wherein R¹ and R² are independently H, C₁. 3alkyl, C₃₋₆cycloalkyl, phenyl, -O-phenyl, -N(H)C(O)O-C₁₋₄alkyl or C₁₋₄alkyl-N(H)C(O)O-; said C₃₋₆cycloalkyl, phenyl or O-phenyl being independently and optionally substituted with C₁₋₄alkyl, C₁₋₃alkoxy or halo.
- 12. (original) A compound according to claim 1 wherein R¹ and R² are independently H, C₁.

 3alkyl, phenyl, said phenyl being independently and optionally substituted with C₁4alkyl, C₁.

 3alkoxy or halo.
- 13. (original) A compound according to claim 1 wherein R^1 and R^2 are independently H or unsubstituted C_{1-3} alkyl or phenyl.
- 14. (original) A compound according to claim 1 wherein R^1 and R^2 are independently H or unsubstituted C_{1-3} alkyl or phenyl and A^1 and A^2 are independently C_{1-4} alkylene.
- 15. (original) A compound according to claim 1 wherein -A¹-R¹ and -A²-R² together with the nitrogen to which they are attached form pyrrolyl, pyrrolinyl, pyrrolidinyl, piperidinyl, piperazinyl, morpholino, indolyl, isoindolyl, indolinyl, isoindolinyl, quinolinyl, dihydroisoquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl or tetrahydroisoquinolinyl and are optionally substituted with halo, C₁₋₄alkyl, C₁₋₄alkoxy, cyano or benzyl.
- 16. (original) A compound according to claim 1 wherein -A¹-R¹ and -A²-R² together with the nitrogen to which they are attached form unsubstituted pyrrolyl, pyrrolinyl, pyrrolinyl, piperidinyl, piperazinyl, morpholino, indolyl, isoindolyl, indolinyl, isoindolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl or tetrahydroisoquinolinyl.
- 17. (original) A compound according to claim 1 wherein -A¹-R¹ and -A²-R² together with the nitrogen to which they are attached form unsubstituted pyrrolidinyl, piperidinyl, morpholino or isoindolinyl.

18. (original) A compound according to claim 1 wherein R³ is H and m is 1.

- 19. (original) A compound according to claim 1 wherein n is 0.
- 20. (original) A compound according to claim 1 wherein R⁴ and R⁵ are halo.
- 21. (original) A compound according to claim 1 wherein R⁴ is C₁₋₃alkyl and is attached to G¹.
- 22. (original) A compound according to claim 1 wherein R^4 is C_{1-3} perfluoroalkyl and is attached to G^1 .
- 23. (original) A compound according to claim 1 wherein R⁴ is hydrogen.
- 24. (original) A compound according to claim 1 wherein R⁴ is fluoro.
- 25. (original) A compound according to claim 1 wherein R⁴ is cyano.
- 26. (original) A compound according to claim 1 wherein R⁴ is cyano or fluoro.
- 27. (original) A compound according to claim 1 wherein R⁴ and R⁵ are each fluoro.
- 28. (original) A compound according to claim 1 wherein the hydrogen atom attached to D is in the *trans* configuration to the hydrogen atom attached to E.
- 29. (original) A compound according to claim 1 wherein the hydrogen atom attached to D is in the *cis* configuration to the hydrogen atom attached to E.
- 30. (original) A compound according to claim 1 wherein D in relation to the four moieties to which it is attached has an absolute configuration of S; E in relation to the four moieties to which it is attached has an absolute configuration of S.
- 31. (original) A compound according to claim 1 wherein D in relation to the four moieties to which it is attached has an absolute configuration of S; E in relation to the four moieties to which it is attached has an absolute configuration of R.
- 32. (original) A compound according to claim 1 wherein D in relation to the four moieties to which it is attached has an absolute configuration of R; E in relation to the four moieties to which it is attached has an absolute configuration of S.
- 33. (original) A compound according to claim 1 wherein D in relation to the four moieties to which it is attached has an absolute configuration of R; E in relation to the four moieties to which it is attached has an absolute configuration of R.
- 34. (original) A compound according to claim 1 wherein A³ is a bond.
- 35. (original) A compound according to claim 1 wherein A^3 is C_{1-4} alkylene.
- 36. (original) A compound according to claim 1 wherein A^3 is C_{1-4} alkylidene.
- 37. (original) A compound according to claim 1 wherein A³ is methylene.

- 38. (original) A compound according to claim 1 wherein A⁴ is a bond.
- 39. (original) A compound according to claim 1 wherein A⁴ is methylene.
- 40. (original) A compound according to claim 1 wherein A⁴ is attached X¹.
- 41. (original) A compound according to claim 1 wherein A⁴ is attached X.
- 42. (original) A compound according to claim 1 wherein R⁴ is attached X.
- 43. (currently amended) A compound according to claim 1 wherein A¹ and A² are each independently C₁₋₄alkylene or a bond;

 A^3 is a bond;

 A^4 is a bond and is attached to X^1 ;

X and X¹ are each C;

X² and X³ are each CH;

p is 0;

 R^1 and R^2 are independently H, C_{1-3} alkyl, C_{3-6} cycloalkyl, phenyl, -O-phenyl, -N(H)C(O)O- C_{1-4} alkyl or C_{1-4} alkyl-N(H)C(O)O-;

said C₃₋₆cycloalkyl, phenyl or O-phenyl being independently and optionally substituted with C₁₋₄alkyl, C₁₋₃alkoxy or halo;

- or are independently selected from the group of heterocyclic moieties consisting of thienyl, furanyl, pyrrolyl, pyrrolinyl, pyrrolidinyl, imidazolyl, imidazolinyl, imidazolidinyl, pyrazolyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, pyridyl, pyrimidinyl, piperidinyl, piperazinyl, morpholino, adamantyl, indolyl, isoindolyl, indolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl and tetrahydroisoquinolinyl, wherein said heterocyclic moieties are optionally substituted with halo, C₁-4alkyl, C₁-4alkoxy or cyano;
- or wherein -A¹-R¹ and -A²-R² together with the nitrogen to which they are attached form pyrrolyl, pyrrolidinyl, pyrrolidinyl, imidazolyl, imidazolidinyl, pyrazolyl, pyrazolyl, pyrazolidinyl, pyrazolyl, pyrazolyl, pyrimidinyl, piperidinyl, piperazinyl, morpholino, indolyl,

isoindolyl, indolinyl, isoindolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl or tetrahydroisoquinolinyl-and are optionally substituted with halo, C₁₋₄alkyl, C₁₋₄alkoxy, cyano or benzyl;

R³ is H;

m is 1;

R⁴ is hydrogen, cyano, halo, nitro, C₁₋₃alkyl or C₁₋₃perfluoroalkyl and is attached to X;

n is 0;

G is N;

G¹ is CH;

Y is (D)H wherein D is C; and

Z is (E)H wherein E is C;

provided that

- if R¹ is -N(H)C(O)OC₁₋₄alkyl, C₁₋₄alkyl-N(H)C(O)O- or said heterocyclic moiety wherein said heterocyclic moiety contains a nitrogen atom and said nitrogen atom is attached to A¹, then A¹ is C₂₋₄alkylene;
- if R^2 is -N(H)C(O)OC₁₋₄alkyl, C₁₋₄alkyl-N(H)C(O)O- or said heterocyclic moiety wherein said heterocyclic moiety contains a nitrogen atom and said nitrogen atom is attached to A^2 , then A^2 is C₂₋₄alkylene;
- if R¹ is N(H)C(O)O-C₁₋₄alkyl, C₁₋₄alkyl-N(H)C(O)O- or a heterocyclic moiety selected from the group consisting of thienyl, furanyl, pyrrolyl, pyrrolinyl, pyrrolidinyl, imidazolyl, imidazolinyl, imidazolidinyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, pyridyl, pyrimidinyl, piperidinyl, piperazinyl, morpholino, adamantyl, indolyl, isoindolyl, indolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl and tetrahydroisoquinolinyl, wherein said heterocyclic moieties are

- optionally substituted with halo, C_{1-4} alkyl, C_{1-4} alkoxy or cyano, then R^2 is H or C_{1-3} alkyl; and
- if R² is -N(H)C(O)O-C₁₋₄alkyl, C₁₋₄alkyl-N(H)C(O)O- or a heterocyclic moiety selected from the group consisting of thienyl, furanyl, pyrrolyl, pyrrolinyl, pyrrolidinyl, imidazolyl, imidazolinyl, imidazolidinyl, pyrazolyl, pyrazolinyl, pyrazolidinyl, pyridyl, pyrimidinyl, piperidinyl, piperazinyl, morpholino, adamantyl, indolyl, isoindolyl, indolinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, dihydroisoquinolinyl and tetrahydroisoquinolinyl, wherein said heterocyclic moieties are optionally substituted with halo, C₁₋₄alkyl, C₁₋₄alkoxy or cyano, then R¹ is H or C₁₋₃alkyl.
- 44. (original) A pharmaceutically acceptable formulation comprising a compound according to claim 1.
- 45. (currently amended) A method of treating depression, attention deficit hyperactivity disorder, obsessive-compulsive disorder, post-traumatic stress disorder, substance abuse disorders and sexual dysfunction comprising the administration to a human in need thereof an effective amount of a pharmaceutically acceptable formulation comprising a compound according to claim 1.
- 46. (original) A method of treating sexual dysfunction comprising the administration to a human in need thereof an effective amount of a pharmaceutically acceptable formulation comprising a compound according to claim 1.
- 47. (original) A method of treating premature ejaculation comprising the administration to a human in need thereof an effective amount of a pharmaceutically acceptable formulation comprising a compound according to claim 1.
- 48. (original) A compound or pharmaceutically acceptable salt or solvate thereof selected from the group consisting of
 - 3-(3-methylamino-cyclopentyl)-1*H*-indole-5-carbonitrile;
 - 3-(3-ethylamino-cyclopentyl)-1*H*-indole-5-carbonitrile;
 - 3-(3-dimethylamino-cyclopentyl)-1*H*-indole-5-carbonitrile;

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3-[3-(ethyl-methyl-amino)-cyclopentyl]-1H-indole-5-carbonitrile;
3-(3-diethylamino-cyclopentyl)-1H-indole-5-carbonitrile;
3-(3-pyrrolidin-1-yl-cyclopentyl)-1H-indole-5-carbonitrile;
3-[3-(1.3-dihydro-isoindol-2-yl)-cyclopentyl]-1H-indole-5-carbonitrile;
3-[3-(3,4-dihydro-1H-isoquinolin-2-yl)-cyclopentyl]-1H-indole-5-carbonitrile;
3-(3-penethylamino-cyclopentyl)-1H-indole-5-carbonitrile;
3-[3-(methyl-phenethyl-amino)-cyclopentyl]-1H-indole-5-carbonitrile;
3-(3-morpholin-4-yl-cyclopentyl)-1H-indole-5-carbonitrile;
3-[3-(benzyl-methyl-amino)-cyclopentyl]-1H-indole-5-carbonitrile;
3-(3-benzylamino-cyclopentyl)-1H-indole-5-carbonitrile;
3-(3-piperidin-1-yl-cyclopentyl)-1H-indole-5-carbonitrile;
3-(3-dipropylamino-cyclopentyl)-1H-indole-5-carbonitrile;
3-(3-propylamino-cyclopentyl)-1H-indole-5-carbonitrile;
1-methyl-3-(3-methylamino-cyclopentyl)-1H-indole-5-carbonitrile;
3-(3-ethylamino-cyclopentyl)-1-methyl-1H-indole-5-carbonitrile;
3-(3-benzylamino-cyclopentyl)-1-methyl-1H-indole-5-carbonitrile;
1-methyl-3-(3-phenethylamino-cyclopentyl)-1H-indole-5-carbonitrile;
3-(3-dimethylamino-cyclopentyl)-1-methyl-1H-indole-5-carbonitrile;
3-[3-(ethyl-methyl-amino)-cyclopentyl]-1-methyl-1H-indole-5-carbonitrile;
3-(3-diethylamino-cyclopentyl)-1-methyl-1H-indole-5-carbonitrile;
1-methyl-3-(3-pyrrolidin-1-yl-cyclopentyl)-1H-indole-5-carbonitrile;
1-methyl-3-(3-piperidin-1-yl-cyclopentyl)-1H-indole-5-carbonitrile;
1-methyl-3-(3-morpholin-4-yl-cyclopentyl)-1H-indole-5-carbonitrile;
3-[3-(benzyl-methyl-amino)-cyclopentyl]-1-methyl-1H-indole-5-carbonitrile;
1-methyl-3-[3-(methyl-phenethyl-amino)-cyclopentyl]-1H-indole-5-carbonitrile;
1-methyl-3-(3-propylamino-cyclopentyl)-1H-indole-5-carbonitrile;
3-(3-dipropylamino-cyclopentyl)-1-methyl-1H-indole-5-carbonitrile;
3-[3-(benzyl-methyl-amino)-cyclopentyl]-1-ethyl-1H-indole-5-carbonitrile:
3-(3-dimethylamino-cyclopentyl)-1-ethyl-1H-indole-5-carbonitrile;
3-(5-fluoro-1H-indol-3-yl)-cyclopenty]-dimethyl-amine;
ethyl-[3-(5-fluoro-1H-indol-3-yl)-cyclopentyl]-methyl-amine;
diethyl-[3-(5-fluoro-1H-indol-3-yl)-cyclopentyl]-amine;
5-fluoro-3-(3-pyrrolidin-1-yl-cyclopentyl)-1H-indole;
3-(4-fluoro-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(4-bromo-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(5-dhloro-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(5-bromo-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(5-iodo-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(6-fluoro-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(6-chloro-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(6-bromo-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(7-fluoro-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(7-chloro-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
3-(7-bromo-1H-indol-3-yl)-cyclopentyl-dimethyl-amine;
(1S, 3R)-3-(3-dimethylaminocyclopentyl)-1H-indole-5-carbonitrile;
(1S,3S)-3-(3-dimethylaminocyclopentyl)-1H-indole-5-carbonitrile;
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(1R,3S)-3-(3-dimethylaminocyclopentyl)-1H-indole-5-carbonitrile; (1R,3R)-3-(3-dimethylaminocyclopentyl)-1H-indole-5-carbonitrile; (1S,3S)-3-(5-fluoro-1H-indol-3-yl)-cyclopentyl-dimethylamine; (1R,3S)-3-(5-fluoro-1H-indol-3-yl)-cyclopentyl-dimethylamine; (1R,3R)-3-(5-fluoro-1H-indol-3-yl)-cyclopentyl-dimethylamine; (1S,3R)-3-(5-fluoro-1H-indol-3-yl)-cyclopentyl-dimethylamine; (1S,3R)-3-(3-dimethylamino-cyclopentyl)-1-ethyl-1H-indole-5-carbonitrile; (1S,3S)-3-(3-dimethylamino-cyclopentyl)-1-ethyl-1H-indole-5-carbonitrile; (1R,3S)-3-(3-dimethylamino-cyclopentyl)-1-ethyl-1H-indole-5-carbonitrile; (1S)-3-(3-amino-cyclopentyl)-1H-indole-5-carbonitrile; (1S)-3-(3-amino-cyclopentyl)-1H-indole-5-carbonitrile; and (3S,3'S)-bis-(3-(5-cyano-1H-indol-3-yl)cyclopentyl)amine.
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